

**OATH, POWER OF ATTORNEY, AND PETITION**

Being duly sworn, We, Joseph P. Kronzer, Roger J. Stumo, James F. Dyrud, and Harvey J. Berg

depose and say that: (1) we are citizens of the United States of America, residing respectively at City of St. Paul, County of Ramsey, State of Minnesota; City of Coon Rapids, County of Anoka, State of Minnesota; Township of Stanton, County of St. Croix, State of Wisconsin; and City of St. Paul, County of Ramsey, State of Minnesota; (2) we have reviewed and understand the contents of attached specification, including the claims, as amended by any amendment specifically referred to herein, and we verily believe that we are the original, first, and joint inventors or discoverers of the invention or discovery in

**METHODS OF FORMING FIBROUS FILTRATION FACE MASKS**

(F.N. 45751USA1A )

described and claimed therein and for which a patent is sought: (3) we do not know and do not believe that this invention or discovery was ever known or used in the United States of America before our invention or discovery thereof, or patented or described in any printed publication in any country before our invention or discovery thereof, or more than one year prior to this application, or in public use or on sale in the United States of America more than one year prior to this application; (4) that this invention or discovery has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by us or our legal representatives or assigns more than twelve months before this application; (5) we hereby acknowledge our duty to disclose to the Patent and Trademark Office information we are aware of which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a)\*; and (6) no application for patent or inventor's certificate on this invention or discovery has been filed by us or our legal representatives or assigns in any country foreign to the United States of America.

We hereby appoint Donald M. Sell (Reg. No. 17,324), John C. Barnes (Reg. No. 20,278), Walter N. Kirn (Reg. No. 21,196), Roger R. Tamte (Reg. No. 21,093) Terry K. Qualey (Reg. No. 25,148, Warren R. Bovee (Reg. No. 26,434) and Karl G. Hanson (Reg. No. 32,900).

and Karl G. Hanson (Reg. No. 32,900) our attorneys with full powers (including the powers of appointment, substitution, and revocation) to prosecute this application and any division, continuation, continuation-in-part, reexamination, or reissue thereof, and to transact all business in the Patent and Trademark Office connected therewith; the mailing address and the telephone number of the above-mentioned attorneys are

Attention: Karl G. Hanson  
3M Office of Patent Counsel  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427  
Telephone No. (612) 733-1500

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the attached specification and we hereby subscribe our names to the foregoing specification and claims, oath, power of attorney, and this petition, this 19th day of December, 1990.

1-00 Inventor: Joseph P. Kronzer

Post Office Address: P.O. Box 33427  
St. Paul, Minnesota 55133-3427

Inventor: Roger J. Stumo

Post Office Address: P.O. Box 33427  
St. Paul, Minnesota 55133-3427

2-00 Inventor: James F. Dyrud

Post Office Address: P.O. Box 33427  
St. Paul, Minnesota 55133-3427

Inventor: Harvey J. Berg

Post Office Address: P.O. Box 33427  
St. Paul, Minnesota 55133-3427

STATE OF MINNESOTA

COUNTY OF RAMSEY

Before me personally appeared Joseph P. Kronzer and James F. Dyrud

to me known to be the persons described in the above application for patent, who signed the foregoing instrument in my presence, and they acknowledged to me that they executed the same for the purposes and considerations set forth therein as being under oath, on the day and year aforesaid.

(SEAL)



SANDRA R. COOK  
NOTARY PUBLIC—MINNESOTA  
DAKOTA COUNTY  
My Comm. Expires July 27, 1994

This form may be executed only when attached to the

Sandra R. Cook

Whereas we, Joseph P. Kronzer, Roger J. Stumo, James F. Dyrud, and Harvey J. Berg

citizens of the United States of America residing respectively at City of St. Paul, County of Ramsey, State of Minnesota; City of Coon Rapids, County of Anoka, State of Minnesota; Township of Stanton, County of St. Croix, State of Wisconsin; and City of have made an invention in St. Paul, County of Ramsey, State of Minnesota

METHODS OF FORMING FIBROUS FILTRATION FACE MASKS

(F.N. 45751USAL1 )

and have today executed an application for Letters Patent of the United States of America based thereon;


Now, Therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the MINNESOTA MINING AND MANUFACTURING COMPANY (sometimes designated as the Minnesota Mining & Manufacturing Company), a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the said Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

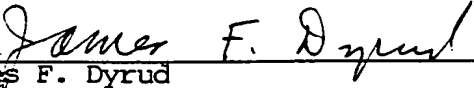
We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

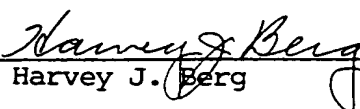
And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said Minnesota Mining and Manufacturing Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the day and year set forth below.

  
Joseph P. Kronzer

  
Roger J. Stumo

  
James F. Dyrud

  
Harvey J. Berg

STATE OF MINNESOTA

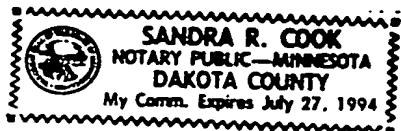
COUNTY OF RAMSEY

} SS.

On this 19<sup>th</sup> day of December, 1990, before me personally appeared the above-named Joseph P. Kronzer and James F. Dyrud

personally known to me, and known by me to be the persons described in and who executed the foregoing instrument, and who acknowledged that they executed the same as their free act and deed, on the day and year aforesaid.

(Seal)

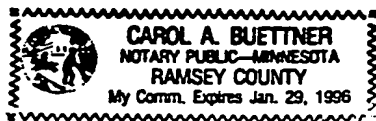


  
Notary Public

3M Office of Patent Counsel  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427  
U.S.A.

STATE OF MINNESOTA )  
 ) ss.  
COUNTY OF RAMSEY )

On this 20th day of December, 1990, before me personally appeared Roger J. Stumo and Harvey J. Berg to me known to be the persons described in the above application for patent, who signed the foregoing instrument in my presence, and made oath before me to the allegations set forth therein as being under oath, on the day and year aforesaid.



Carol A. Buettner  
Notary Public